



[11] Patent Number: 5,825,569

[45] **Date of Patent:** **Oct. 20, 1998**

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|-----------|---------|-----------------------|-------------|
| 5,278,703 | 1/1994 | Rub et al. | 360/51 |
| 5,327,302 | 7/1994 | Khoury et al. | 360/51 X |
| 5,345,342 | 9/1994 | Abbott et al. | 360/48 |
| 5,544,135 | 8/1996 | Akin, Jr. et al. | 360/77.08 X |
| 5,587,850 | 12/1996 | Ton-that | 360/77.08 |
| 5,631,783 | 5/1997 | Park | 360/51 |

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- [57]
- ABSTRACT**

- A magnetic disc used in a constant-density magnetic disc driving apparatus includes a wedge identification field following a servo information area that contains a wedge identification for identifying a plurality of data sectors located within a corresponding data information area. A pseudo identification field positioned at a first portion of each data sector represents a time interval required to generate from the wedge identification a pseudo identification that identifies a corresponding one of the data sectors and transfer the pseudo identification to a controller of the magnetic disc driving apparatus. The pseudo identification field includes a data preamble for providing data synchronization for the corresponding data sector. A data field is positioned behind the pseudo identification field, and the data field and pseudo identification field make up a single data sector. Data that is identified by the pseudo identification and synchronized by the data preamble is written in the data field.

- 13 Claims, 5 Drawing Sheets**

- Feb. 8, 1995 [KR] Rep. of Korea 2270/1995

- [52] U.S. Cl. 360/51; 360/48

- [58] **Field of Search** 360/48, 49, 51,
360/77.08

U.S. PATENT DOCUMENTS

- | | | | |
|-----------|---------|----------------------|-----------|
| 4,682,253 | 7/1987 | Leslie . | |
| 4,811,135 | 3/1989 | Janz . | |
| 4,823,212 | 4/1989 | Knowles et al. . | |
| 4,956,727 | 9/1990 | Bezinque et al. | 360/49 |
| 4,977,472 | 12/1990 | Volz et al. . | |
| 5,121,280 | 6/1992 | King . | |
| 5,257,149 | 10/1993 | Meyer | 360/78.14 |

